

Making THE Learning Connection



Museums, Libraries, and 21st Century Skills



**What will learning look
like in the future?**



Question #1

What will the world be like twenty or so years from now when the children who visit your institution have left school and are out in the world?



Question #2

What skills will these children need to be successful in this world you have imagined twenty years from now?



Question #3


What were the conditions that made your high-performance learning experiences so powerful?



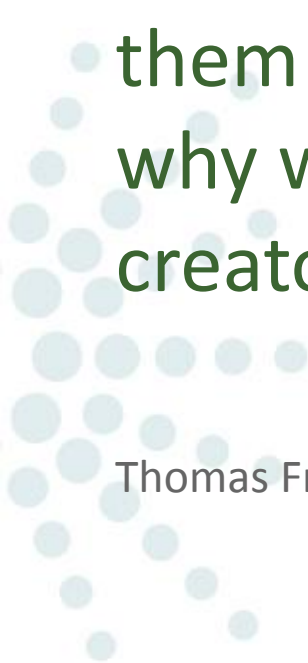
Question #4

What would learning be like if it were designed around your answers to the first three questions?





“For us to grow, we have to educate people to do jobs that don’t yet exist, which means we have to invent them and train people to do them at the same time. That is harder, and it is why we need everyone to aspire to be a creative creator or creative server.”



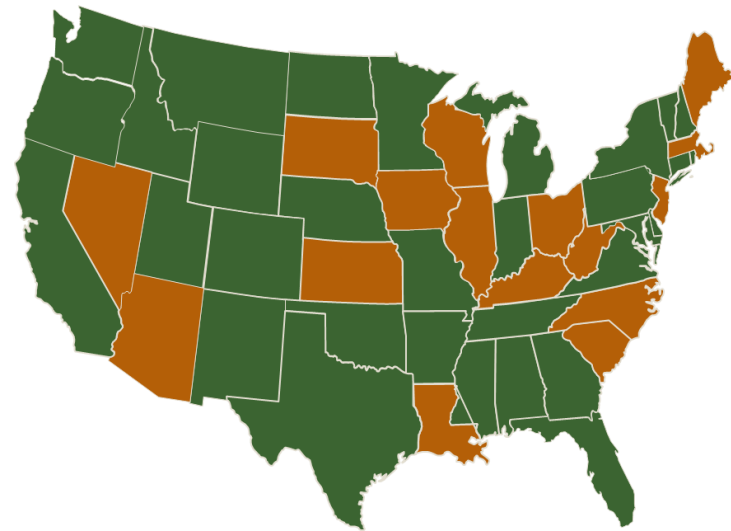
Thomas Friedman and Michael Mandelbaum, *That Used to Be Us*, pp. 137 (2011)




What are 21st Century Skills?



The Partnership for 21st Century Skills



 P21 States

P21 Strategic Council Members





Creativity
collaboration
communication
critical Thinking



Visual Literacy

Basic Literacy

Creativity & Innovation

Critical Thinking & Problem Solving

Learning & Innovation Skills

Scientific and Numerical Literacy

Cross-Disciplinary Thinking

Communication & Collaboration



Media Literacy

Information Literacy

Information, Media & Technology Skills

ICT (Information, Communications & Technology) Literacy



Flexibility & Adaptability

Initiative & Self-Direction

Social & Cross-Cultural Skills

Life & Career Skills

Productivity & Accountability

Leadership & Responsibility



Global Awareness

Civic Literacy


Environmental Literacy

21st Century Themes


Health Literacy

Financial, Economic, Business, & Entrepreneurial Literacy





“In the 21st century...expertise is less about having a stockpile of information or facts at one’s disposal and increasingly about knowing how to find and evaluate information on a given topic”




-Douglas Thomas and John Seely Brown, *A New Culture of Learning: Cultivating the Imagination in a World of Constant Change* (2011)




Why are 21st Century Skills Important?





“All of these qualities—**empathy, discipline**, the capacity **to solve problems**, the capacity to **think critically**—these skills don’t just change how the world sees you. **They change how we see ourselves.** They allow each of us to seek out new horizons and new opportunities with confidence—with the knowledge the we’re ready; that we can face obstacles and challenges and unexpected setbacks. **That’s the power of...education.”**



-President Obama, remarks to Booker T. Washington Graduates,
Memphis, TN, May 16, 2011



21st Century Societal Shifts

	20 th Century	21 st Century
# Jobs/Lifetime	1-2 Jobs	10-15 jobs (US Dept. of Labor 2004)
Job Requirement	Mastery of one field	Simultaneous mastery of many rapidly changing fields
Job Competition	Local	Global
Work Model	Routine; hands-on; fact based	Non-routine; technical; creative; interactive
Education Model	Institution centered; formal degree attainment is primary goal	Learner centered; self-directed, lifelong learning is primary goal
Organizational Culture	Top down	Multi-directional (bottom-up, top down, side to side, etc.)




What are the most important skillsets students leaving high school need to have to thrive in college and life?

Dennis Maple, President of ARAMARK Education, and Larry Merlo, CEO of CVS Caremark Corporation say:


- 
- **Critical Thinking**
 - **Creativity and innovation**
 - **Resiliency**
 - **Communication**
 - **Collaboration**

Morning Plenary discussion, 2012 Building a Grad Nation Summit, Washington, DC






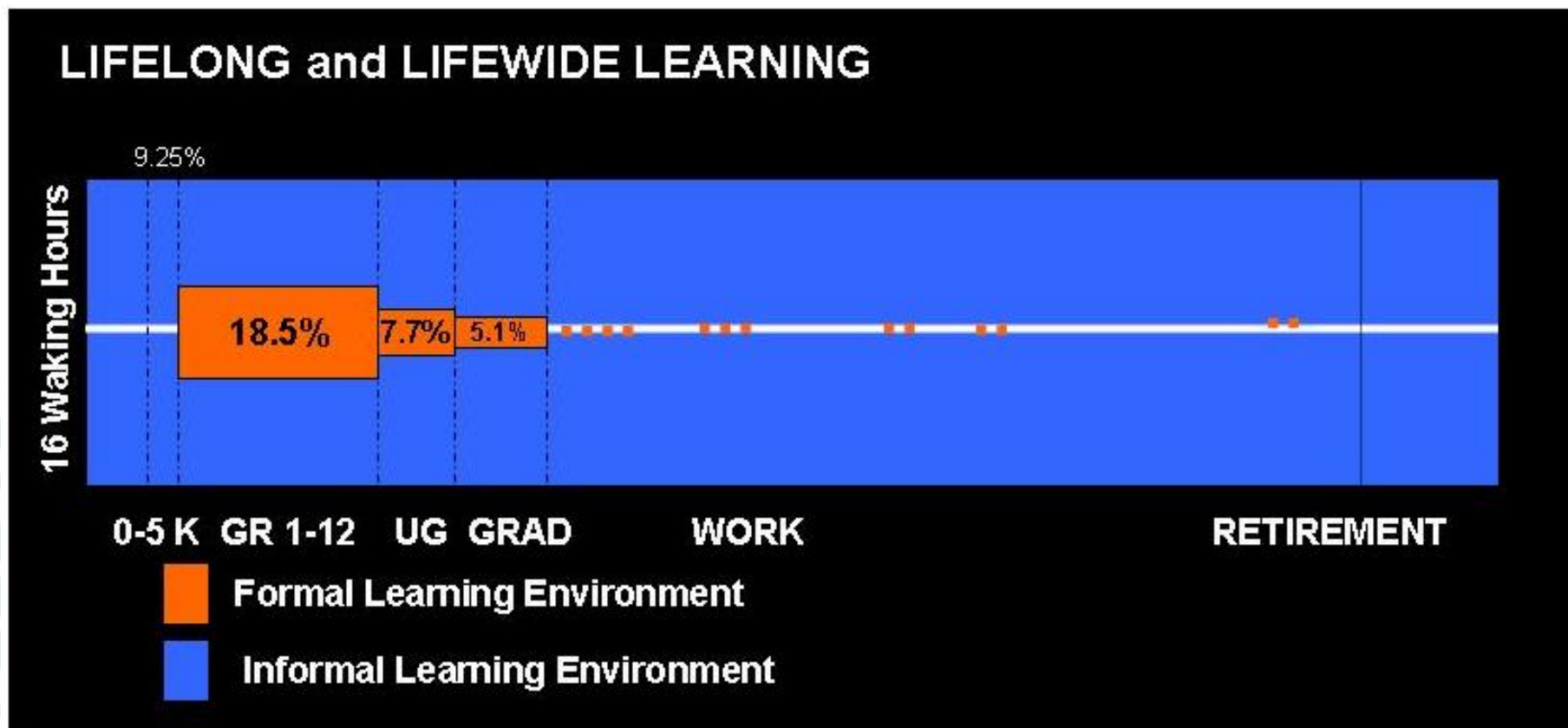
“Today's technology-enabled, information-rich, deeply interconnected world means learning not only can – but *should* – happen anywhere, anytime. We need to recognize these experiences, whether the environments are physical or online, and whether learning takes place in schools, colleges or adult education centers, or in afterschool, workplace, military or community settings.”



Secretary of Education, Arne Duncan, at 4th Annual Launch of the MacArthur Foundation Digital Media and Lifelong Learning Competition (9/15/11)



Recognition of Lifelong Learning



-Banks et al. "Learning in and out of school in diverse environments..." Seattle: NSF LIFE Center and University of Washington Center for Multicultural Education. 2006.

From “Connected” to “Hyper-Connected”

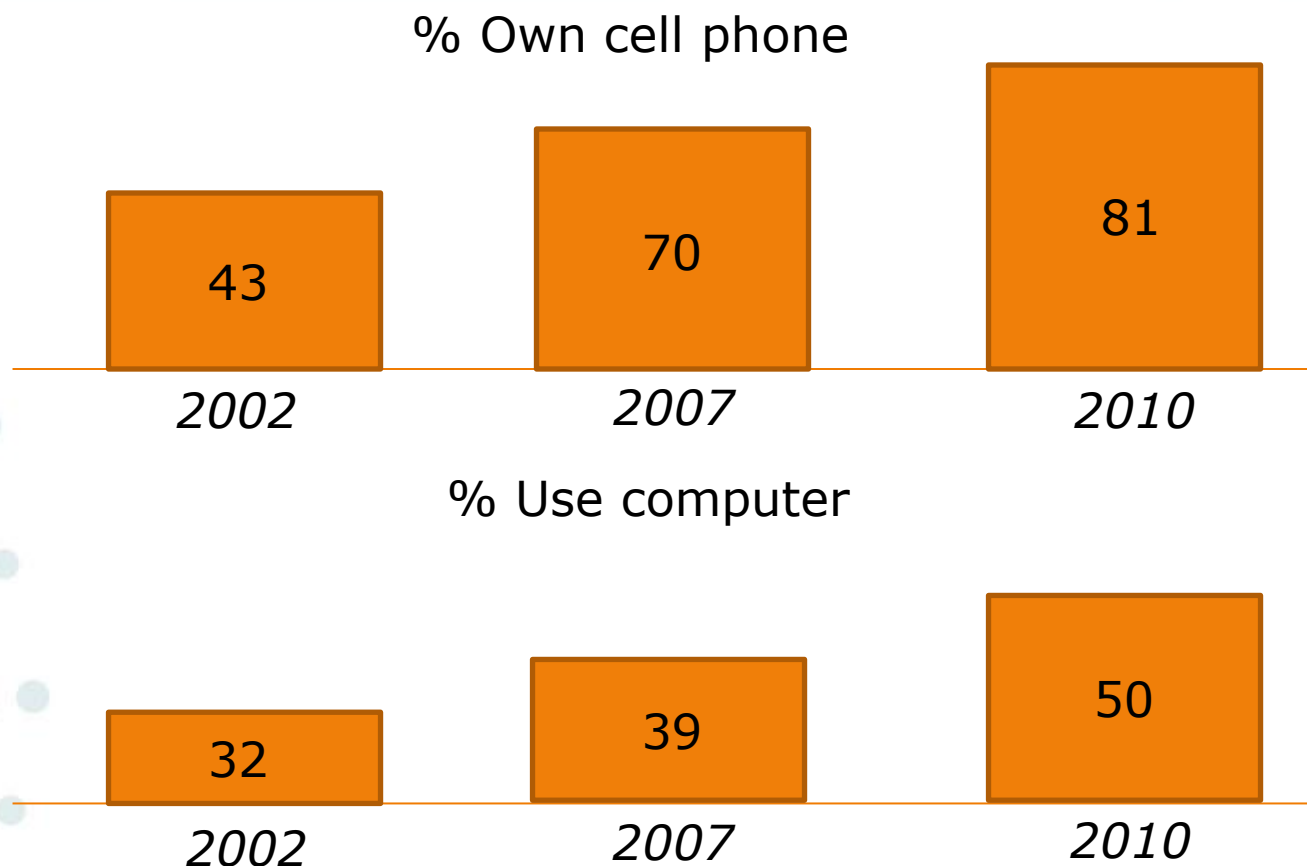
Back in 2005,

“... ‘Twitter’ was still a sound, the ‘cloud’ was something in the sky, ‘3G’ was a parking space, ‘applications’ were what you sent to college, and ‘Skype’ was a typo.”

From *That Used to Be Us* (2011) by Thomas Friedman and Michael Mandelbaum



Cell Phone & Computers Increasingly Common



Based on median % across the 16 nations where 2002, 2007 and 2010 data are available. PEW RESEARCH CENTER Q62 & Q65

National Research Council Study

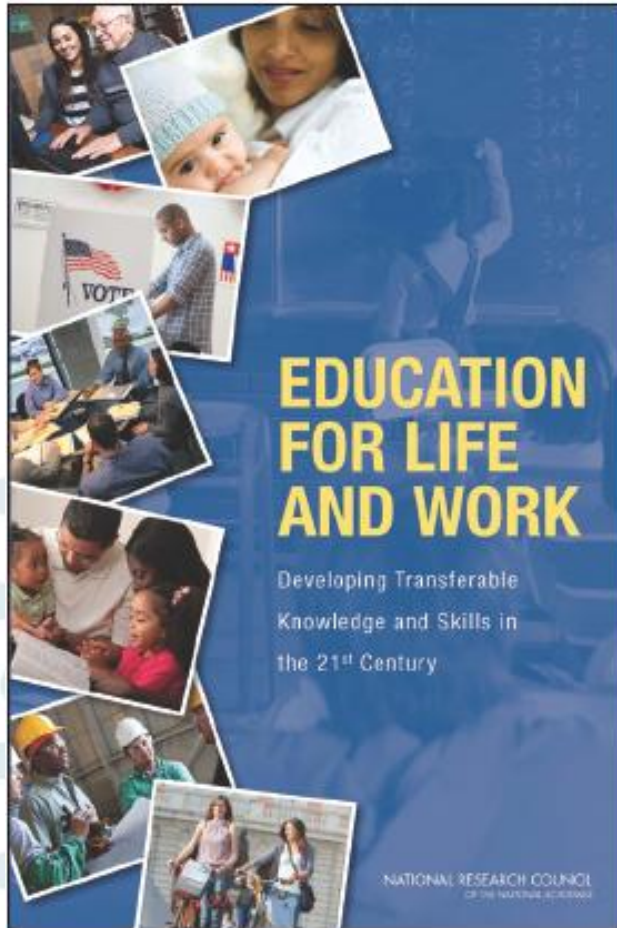



Image: Cover of report, *Education for Life and Work: Developing Transferable Knowledge and Skills in the 21st Century* (2012), Center for Education, National Research Council


Classifies 3 Domains of Competence


- The Cognitive (critical thinking, information literacy, creativity)
- The Intrapersonal (work ethic, flexibility, initiative)
- The Interpersonal (teamwork, collaboration, leadership)

The 21st Century Museum/Library Shift




20 th Century Museum/Library	21 st Century Museum/Library
Primarily content driven	Combination of audience and content driven
Mostly tangible objects	Tangible and digital objects
One-way	Multi-directional
Focus on presentation and display	Focus on audience engagement, experiences
Acts independently	Acts in highly collaborative partnerships
Located in community	Embedded in community
Learning outcomes assumed, implied	Learning outcomes purposeful






“All libraries and museums—and the people they serve—stand to benefit from becoming more intentional and purposeful about accommodating the lifelong learning needs of people in the 21st century, and doing this work collaboratively in alignment with community needs.”





From *Libraries, Museums, and 21st Century Skills*, IMLS (2009), pp. 7





**Where can I find more
information about 21st
Century Skills?**



IMLS Resources

<http://www.imls.gov/21stCenturySkills>



- *Museums, Libraries and 21st Century Skills* publication
- 21st century skills podcast
- Community workshop toolkit
- Self-assessment tool
- Community learning scan
- Information about **successful IMLS-funded projects** involving 21st century skills
- **Resource** bibliography

Other Useful Resources

For a list of other useful resources, please visit the “other resources” tab of the IMLS 21st Century Skills website to find a list of helpful links and a bibliography of current research and reports. www.imls.gov/21stcenturyskills